

Pre-Calculus 12



Instructor: Ron Mambery
Email: rmembership@sd68.bc.ca
Phone: 250-816-7052

Introduction

Pre-Calculus 12 builds on and expands the concepts learned in Pre-Calculus 11. Much like its precursor, PREC12 is focused on mathematical theory, algebra, and graphing. Completing PREC12 satisfies the grade 11 or 12 math class requirement for graduation. PREC12 is the appropriate class for students planning to study something like math, science, engineering, or computer science at a university. Check the specific requirements of your desired program. If you plan to take Calculus 12, it would be a good idea to take PREC12 before (or potentially at the same time) as Calculus 12.

In this online class, students watch video lessons and do practice questions through a service called Content Connections, which acts like an online textbook and homework resource. As they work through the lessons, students will complete short (mostly multiple choice) quizzes. Each unit finishes with an assignment and a test.

Topics

- Unit 1 Transforming Graphs of Functions
- Unit 2 Graphing Radical and Rational Functions
- Unit 3 Polynomial Functions
- Unit 4 Exponential and Logarithmic Functions
- Unit 5 Circular Functions
- Unit 6 Trigonometric Equations and Identities
- Unit 7 Conics
- Unit 8 Geometric Sequences and Series

Unit Contents

Each unit contains:

- Video lessons
- Online practice questions
- Quizzes
- A Review Assignment
- A Test

Grades

| | |
|-------------|-----|
| Quizzes | 10% |
| Assignments | 45% |
| Tests | 45% |

Curriculum Big Ideas

- Using inverses is the foundation of solving equations and can be extended to relationships between functions.
- Understanding the characteristics of families of functions allows us to model and understand relationships and to build connections between classes of functions.
- Transformations of shapes extend to functions and relations in all of their representations.

Resources

| | |
|-----------------|---|
| Online Classes: | https://nlps.instructure.com |
| Jupiter Grades: | https://jupitergrades.com |
| School Website: | https://island-connected.sd68.bc.ca |
| BC Curriculum: | Pre-Calculus 12 |

Attendance

Please be aware that Island Connect K-12 does not have a general attendance requirement. However, it is in your best interests to make a habit of checking in with your teacher – either face to face, by email, phone or through video conference. Past learners have stated that such contact promotes engagement with the course materials and serves to motivate them to complete the work in a timely fashion.

Completion Timeline Expectations

You should plan to complete this class within 4 months of signing up – the duration of a normal high school semester. However, online classes are self-paced. It is up to you if you would like to complete the class more quickly or need more time. Either way, it is recommended that you make yourself a schedule and stick to it so that you can meet your personal goal for completing your online class.

Some online classes have a hard deadline at the end of the school year (end of June), depending on when you activated. Check with your teacher if you are concerned about class deadlines.

If you require a final grade for post-secondary applications, scholarships, etc. it is up to you to meet that deadline and allow time for your teacher to mark your work and send in a final grade.